

6BK5

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BEAM POWER TUBE



9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3	ac or dc volts
Current	1.2	amp

Direct Interelectrode Capacitances:[o]

Grid No.1 to plate	0.6	μμf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	13	μμf
Plate to cathode & grid No.3, grid No.2, and heater	5	μμf

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip)	2" ± 3/32"
Maximum Diameter	7/8"
Bulb	T-6-1/2
Base	Small-Button Noval 9-Pin (JETEC No.E9-1)
Basing Designation for BOTTOM VIEW	9BQ

Pin 1 - Plate
Pin 2 - No Connection
Pin 3 - Grid No.1
Pin 4 - Heater
Pin 5 - Heater
Pin 6 - Cathode, Grid No.3
Pin 7 - Grid No.1
Pin 8 - Grid No.2
Pin 9 - No Connection

AMPLIFIER - Class A_1

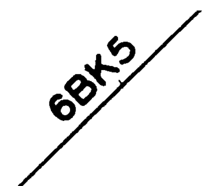
Maximum Ratings, ***Design-Center Values:***

PLATE VOLTAGE	250 max.	volts
GRID-No.2 (SCREEN) VOLTAGE	250 max.	volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive bias value	0 max.	volts
GRID-No.2 INPUT	2.5 max.	watts
PLATE DISSIPATION	9 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	100 max.	volts
Heater positive with respect to cathode	100 max.	volts

Typical Operation and Characteristics:

Plate Voltage	250	volts
Grid-No.2 Voltage	250	volts
Grid-No.1 Voltage	-5	volts
Peak AF Grid-No.1 Voltage	5	volts
Zero-Signal Plate Current	35	ma
Max.-Signal Plate Current (Approx.)	37	ma
Zero-Signal Grid-No.2 Current	3.5	ma

o Without external shield.





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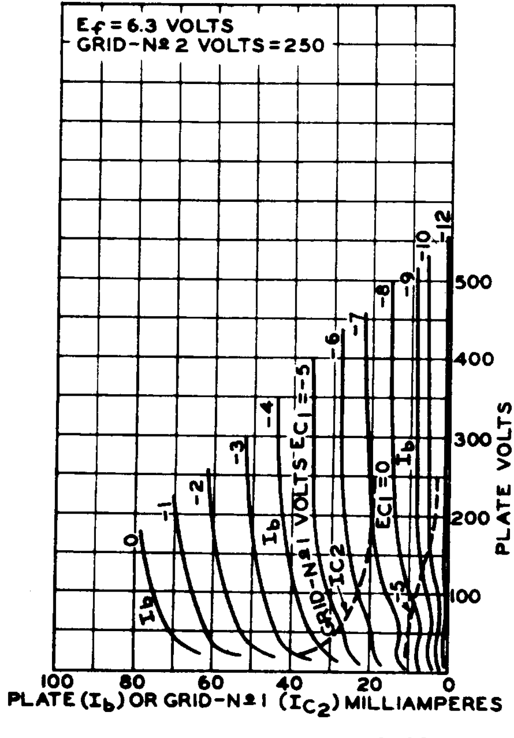
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Max.-Signal Grid-No.2 Current (Approx.). .	10	ma
Plate Resistance (Approx.)	0.1	megohm
Transconductance	8500	μmhos
Load Resistance.	6500	ohms
Total Harmonic Distortion (Approx.). . . .	7	%
Power Output	3.5	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.1 max.	megohm
For cathode-bias operation	0.5 max.	megohm



MAY 1, 1955 TENTATIVE DATA

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY